SEQUENCE LISTING

<110> ORCHID BIOSCIENCES, INC.
    MCKEOWN, Brian
    DERBYSHIRE, Roger
    ROWAN, Paul
    SUNG, Robert

<120> Methods and Compositions for Genotyping

<130> 13428US

<140> 10/632,393
<141> 2003-08-01

<150> 60/400,533
<151> 2002-08-02

<150> 10/328,150
<151> 2002-12-20

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<170> FastSEQ for Windows Version 4.0

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tatctcaata gcagccccat gccaaacact tcccagggac tgagtaaaga ttttccccaaa 300
gggtgagtga atgttgagga aaggcagaaa gcaatcctcc ttaagtggga tatcagaatg 360
ctgagcttaa cttgaaaccg tttctaaacc atagactctt atttaaagga aaccaacatg 420
aaaatgccaa caccacctta tttacaaggt actttgttca ctagagctat taaagggctg 480
tgttgatggg aagctgtgta taattgtagg tattatgcca gagaccgctt tctgtcaggc 540
tgccagacca aaggggtagg gaccgtactc tagagaccct cacccaacag gatgattaaa 600
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ggattagaat ctctggctca agggattttg tgtcctgtag atactgtgtt ttcgtttttc 180
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ttgcttgac   69

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<213> Ovis aries

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ttgcttgac   69

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<211> 26
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<213> Ovis aries

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<210> 26
<211> 27
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<400> 26
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<210> 27
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<212> DNA
<213> Ovis aries

<400> 27
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<212> DNA
<213> Qvis aries

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tgatgcccag atggagaaaa aaataggaga aaaatatttt tccatgtaag aaaaagtata  120
ccagtgaagc aaaatgcatt gtgcttctta tctaattatt gctacataaa aacacaaaat  180
tttatctcta cgatttcaga actatttact tgataaccta gtagtaaaag gaattttgta  240
tgttctcatt ttgcacattg tctcattcag actttccttt tatatgtatt atcttcagtg  300
ttaacatatt gtaaaatgtt tcattgtcac tcatattctg attttaagac agaagtacat  360
tttaagcatc aatttcaact aaacaaaat tgccttctca caaaattggc tgttattctg  420
ataaccaaaa gggctaagtg gaagagacat ataattactt attctaaaat tgtagaattt  480
ggcaagaagt gagacttatt tgattcattt ataaaacatg taaacaaaag acagttatcc  540
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<213> Ovis aries

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<213> Ovis aries

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gattttctct ctctcgct                                                 78
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<210> 37
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<213> Ovis aries

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<213> Ovis aries

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<220>
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<222> (231)...(231)
<223> k = g or t

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agtgycatga gcaggcctct tatacatttt ggcaatgact atgaggaccg ttactatcrt 180
gaaaacatgt accgttaccc caaccaagtg tactacagac cagtggatcr ktatagtaac 240
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gagctgctgc agctggagca gtggtagggg gccttggtgg ctacatgctg ggaagtgcca 180
tgagcaggcc tcttatacat tttggcaatg actatgagga ccgttactat cgtgaaaaca 240
tgtaccgtta ccccaaccaa gtgtactaca gaccagtgga tcggtatagt aaccagaaca 300
actttgtgca tgactgtgtc aacatcacag tcaagcaaca cacagtcacc accaccacca 360
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tttcccacac agggtatatt accttaggtg tcctaagaga ttttttgcctt tcaatgtacg 360
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ccaggtggac tgctttttctc cccgcttaca tttcctagaa agtgccctgc tcaccctttt 180
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SEQUENCE LISTING

<110> ORCHID BIOSCIENCES, INC.
      MCKEOWN, Brian
      DERBYSHIRE, Roger
      ROWAN, Paul
      SUNG, Robert

<120> Methods and Compositions for Genotyping

<130> 13428US

<140> 10/632,393
<141> 2003-08-01

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gagaaggcct cagttgggtg aagcg 25

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<212> DNA
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<211> 45
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<212> DNA
<213> Ovis aries

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<210> 7
<211> 24
<212> DNA
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<400> 7   24
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<210> 8
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<210> 11
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cagtggctg
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30

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26

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<210> 18
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agtcagtgga acaag 75

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ttgcttgac 69

<210> 24
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ttgcttgac 69

<210> 25
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tccactggat agctgaagct ctggaca 27

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aacacacagt caccaccacc accttc 26

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ccagtgaagc aaaatgcatt gtgcttctta tctaattatt gctacataaa aacacaaaat 180
tttatctcta cgatttcaga actatttact tgataaccta gtagtaaaag gaattttgta 240
tgttctcatt ttgcacattg tctcattcag actttccttt tatatgtatt atcttcagtg 300
ttaacatatt gtaaaatgtt tcattgtcac tcatattctg attttaagac agaagtacat 360
tttaagcatc aatttcaact aaacaaaat tgccttctca caaaattggc tgttattctg 420
ataaccaaaa gggctaagtg gaagagacat ataattactt attctaaaat tgtagaattt 480
ggcaagaagt gagacttatt tgattcattt ataaaacatg taaacaaaag acagttatcc 540
tctgcctgaa ttaaaataga tgagttttc ataaaaataa ataagtgact gttctcatgc 600
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<210> 30
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ttccaatctt tacggtatgt cgcccatctt gctgagtagt gagccatggt acatagtaga 60
gattttctct ctctcgct                                                78
```

<210> 31
<211> 78
<212> DNA
<213> Ovis aries

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ttccaatctt tacggtatgt cgcccatctt gctcagtagt gagccatggt acatagtaga 60
gattttctct ctctcgct                                                78
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<210> 32
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gagagtcctc catctgggca tcagaactga gtttggagta                        40
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<211> 40
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<400> 33
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gagactcctc catctgggca·tcagaactga gtttggagta                        40
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<212> DNA
<213> Ovis aries

<400> 34
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<210> 35
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<212> DNA
<213> Ovis aries

<400> 35
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tctttacggt atgtcgccca tcttgct                                      27
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<210> 36
<211> 36
<212> DNA
<213> Ovis aries

<400> 36
ataaacttgt tcaaaatgta tgtgtatatt cgctct   36

<210> 37
<211> 25
<212> DNA
<213> Ovis aries

<400> 37
tcagttctga tgcccagatg gagga   25

<210> 38
<211> 28
<212> DNA
<213> Ovis aries

<400> 38
ggacggtgac tcaactctgc gttggagt   28

<210> 39
<211> 25
<212> DNA
<213> Ovis aries

<400> 39
gtgactacgc ccaagctcct ggtca   25

<210> 40
<211> 100
<212> DNA
<213> Ovis aries

<400> 40
catccctgta gcgatcacaa ccgatagcat tggtcatctg tgagtcagct gaccaggagc 60
ttgggcgtag tcactccaac gcagagttga gtcaccgtcc   100

<210> 41
<211> 29
<212> DNA
<213> Ovis aries

<400> 41
aaccgatagc attggtcatc tgtgagtca   29

<210> 42
<211> 30
<212> DNA
<213> Ovis aries

<400> 42
catccctgta gcgatcacaa ccgatagcat   30

<210> 43
<211> 310
<212> DNA
<213> Ovis aries

<220>
<221> misc_feature
<222> (179)...(179)
<223> r = a or g

<220>
<221> misc_feature
<222> (230)...(230)
<223> r = a or g

<220>
<221> misc_feature

<222> (125)...(125)
<223> y. = t or c

<220>
<221> misc_feature
<222> (231)...(231)
<223> k = g or t

<400> 43
caaggtggta gccacagtca gtggaacaag cccagtaagc caaaaaccaa catgaagcat 60
gtggcaggag ctgctgcagc tggagcagtg gtaggggggcc ttggtggcta catgctggga 120
agtgycatga gcaggcctct tatacatttt ggcaatgact atgaggaccg ttactatcrt 180
gaaaacatgt accgttaccc caaccaagtg tactacagac cagtggatcr ktatagtaac 240
cagaacaact ttgtgcatga ctgtgtcaac atcacagtca agcaacacac agtcaccacc 300
accaccaagg 310

<210> 44
<211> 420
<212> DNA
<213> Ovis aries

<400> 44
gtcagcccca tggtggtggc tggggacagc cacatggtgg tggaggctgg ggtcaaggtg 60
gtagccacag tcagtggaac aagcccagta agccaaaaac caacatgaag catgtggcag 120
gagctgctgc agctggagca gtggtagggg gccttggtgg ctacatgctg ggaagtgcca 180
tgagcaggcc tcttatacat tttggcaatg actatgagga ccgttactat cgtgaaaaca 240
tgtaccgtta ccccaaccaa gtgtactaca gaccagtgga tcggtatagt aaccagaaca 300
actttgtgca tgactgtgtc aacatcacag tcaagcaaca cacagtcacc accaccacca 360
agggggagaa cttcaccgaa actgacatca agataatgga gcgagtggtg gagcaaatgt 420

<210> 45
<211> 192
<212> DNA
<213> Ovis aries

<400> 45
ctgccaagtg tagagtcgtc agggagcagg ccaggctggg ggctccctct gcccctgacc 60
cctggggggag ctgctgggag agtcctggcc tctcctgcat gtgcgtggct tgcttttttgg 120
ctggactaag gattgcagcc atatgaaatg ctcattgctg tcctcatccc cctcccattg 180
gctgtcctgg aa 192

<210> 46
<211> 422
<212> DNA
<213> Ovis aries

<400> 46
taatagaaac tacaggctaa ttacctgaat tatatatttt ttttttccatg atgtcctcca 60
agttccaggt aagtatgttt atttgtgatt gtcattttca tgtggatgcc tatgtttctg 120
ggagatctat gcccttctcc aagttctggt gaagaaggtt tggagacagc cactacccaa 180
aatgtatttg tcttcattct tcaccttgct aaatcttacg cattttaagg tcccagcttt 240
ctattcctcc attcaaaaaa cataatttga ttatttgctt ctattccaat attctttgta 300
tttcccacac agggtatatt accttaggtg tcctaagaga tttttgcctt tcaatgtacg 360
caagcccagc acatgccatg gtacatagta gagattttct ctctctcgct gtctctctct 420
ct 422

<210> 47
<211> 226
<212> DNA
<213> Ovis aries

<400> 47
gttggctttc gtgtttgctg ctgtcctcat agatttcaca tggattagag gtcctccaaa 60
tggagtgctg cccaccttga ccactctttc ccatgcttct tgcctgctgc ttcacatggt 120
ccaggtggac tgctttttctc cccgcttaca tttcctagaa agtgccctgc tcaccctttt 180
ctctggatgc tcactcaggg gttttaccag gcctgaactc tctcca 226